PROPOSAL EVALUATION

Proposition 1E Integrated Regional Water Management (IRWM) Grant Program

Stormwater Flood Management Grant, Round 1, 2010-2011

Applicant San Francisco Public Utilities Commission **Amount Requested** $24,147,000

Proposal Title San Francisco Stormwater & Flood Management Priority Projects **Total Proposal Cost** $86, 398,000

PROPOSAL SUMMARY

The proposal includes two projects: (1) Sunnydale Flood and Stormwater Management Sewer Improvement Project, and (2) Cesar Chavez Street Flood and Stormwater Management Sewer Improvement Project. This proposal will achieve several key goals: (1) Protect public health and safety from flooding; (2) Protect and enhance water quality in the San Francisco Bay; and (3) Provide a compliant, reliable, resilient and flexible system that can respond to catastrophic events.

PROPOSAL SCORE

Criteria	Score/Max. Possible	Criteria	Score/Max. Possible
Work Plan	**15/15**	Economic Analysis – Flood Damage Reduction and Water Supply Benefits	**9/12**
Budget	**5/5**	Water Quality and Other Expected Benefits	**9/12**
Schedule	**5/5**	Program Preferences	**8/10**
Monitoring, Assessment, and Performance Measures	**3/5**		
		Total Score (max. possible = 64)	**54**

EVALUATION SUMMARY

Work Plan

The Work Plan criterion is fully addressed and supported by thorough and well-presented documentation and logical rationale. Both of the Projects are included in SFPUC's Wastewater Enterprise Capital Improvement Program and are therefore integrated and their implementation adds value to the overall implementation of the WWE CIP for managing the system's wastewater and stormwater. The documentation for both Projects includes engineering and geotechnical reports, Mitigated Negative Declarations for CEQA compliance, and appropriate plans and specifications. The criterion is addressed with sufficient detail to exhibit an ability to proceed. Construction has already begun for both projects. Synergies and linkages are thoroughly discussed. Application includes maps for both projects.

Budget

The Budgets for both of the projects in the Proposal have detailed cost information as described in Attachment 4; the costs are reasonable, and all the Budget categories of Exhibit B are thoroughly supported. The application includes a summary Budget and Budgets for both projects. The project Budgets include documentation sufficient for the level of design and project status. For example, Phase I of both Project (1) and Project (2) sewer construction work are estimated using general contractor bids; and the Valencia Street LID construction component of Project (2), which is at a conceptual design level, is estimated using the costs for similar work being implemented near the project area. Tasks are consistent with the Work Plan and Schedule.

Schedule

The Schedule is reasonable, consistent with the Work Plan and Budget, and demonstrates a readiness to begin construction or implementation of at least one project of the Proposal no later than six months after the anticipated award date (October 1, 2011). Phase I of both Projects has already started construction; Phase II of Project (1) is estimated to begin 8 months after the grant award date. The Schedule includes a summary/description of task. Tasks in the Schedule are reasonable and correspond with the tasks presented in the Work Plan

Monitoring, Assessment, and Performance Measures

The criterion is less than fully addressed, and not supported by thorough documentation or sufficient rationales. Based on activities presented in the Schedule, it is expected that this section would contain quantitative metrics. The areas potentially impacted by flooding with and without the Projects are documented and it is expected that the number of complaints and observations of flooding will be reduced to zero for the design storm event (5-year event). Measuring, Assessment, and Performance Measures for Water Quality rely on hydraulic modeling and data collected to determine volumes of water discharged to the sewer systems and water quality tested at outfall locations. Regarding the third goal of the Projects, a "catastrophic event" is not clearly understood by the reviewers. It is not clear how "response to a catastrophic event" is to be measured, because what constitutes a "catastrophic event" is unknown. It is not expected that a system designed for a 5-year event will perform during a catastrophic event.

Economic Analysis – Flood Damage Reduction (FDR) and Water Supply Benefits

Average levels of flood damage reduction and water supply benefits can be realized through this Proposal, based on the quality of the analysis and supporting documentation. An inundation map is provided, the estimated probability of flood events is verifiable, and expected annual damages appear to be accurate. F-RAM was used. There are two separate projects. For project (1), total Net Present Value (NPV) of costs is $50.6 million. FDR claimed benefits are $32.973 million, plus $0.055 million of traffic benefits. For project (2), total NPV of costs is $21.288 million. FDR claimed benefits are $20.904 million plus $0.290 million of traffic benefits. For both projects, total FDR benefits cover about 75% of the costs. No water supply benefits are claimed.

Economic Analysis – Water Quality and Other Expected Benefits

Average levels of water quality and other benefits can be realized through this Proposal, based on the quality of the analysis and supporting documentation. Water quality and other claimed benefits for project (1) are $21.108 million. Most of the monetized benefit is the avoided cost of a new box sewer, a pump station, and deferred rehabilitation of 400 feet of existing sewer line. Water quality and other claimed benefits for Project (2) are $1.049 million.

Program Preferences

The proposal demonstrates with a significant degree of certainty that a number of Program Preferences can be achieved by implementing the proposed project. Thorough documentation with breadth and magnitude is provided for the following Program Preferences: Include Regional Projects or Programs, Contribute to Attainment of One or More of the Objectives of the CALFED Bay-Delta Program, Effectively Integrate Water Management with Land Use Planning, Practice Integrated Flood Management and Protect Surface Water and Ground Quality.